Common Core Standards - Resource Page

The resources below have been created to assist teachers' understanding and to aid instruction of this standard.

Domain	**Standard:** G.SRT.4 - Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.
Similarity, Right Triangles, and Trigonometry **Prove theorems involving similarity**	Questions to Focus Learning What relationships among sides and other segments in a triangle are always true? In triangles, certain relationships among sides and other segments are always true. Student Friendly Objectives *Reasoning Targets* I can prove the geometric mean relationships in a triangle using similarity. I can prove the angle bisector theorem in a triangle using similarity. I can prove the Pythagorean Theorem using similarity. I can prove the triangle proportionality theorem (side splitting theorem) using similarity. I can prove that perimeters in similar triangles are proportional. I can prove that the square root of the areas in similar triangles is proportional. I can prove that special segments in similar triangles are proportional. Vocabulary altitude angle bisector geometric mean median perpendicular bisector Pythagorean Theorem proportional Teacher Tips Vertical Progression

The above information and more can be accessed for free on the Wiki-Teacher website.
Direct link for this standard: G.SRT.4