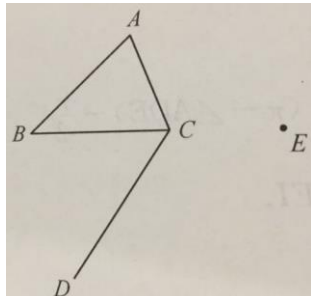


**Example 103 :** As shown in Figure 1, point  $D$  is the paracentre of  $\triangle ABC$ , and the symmetry point of point  $A$  with respect to straight line  $DC$  is  $E$ . Proof: three points  $B$ ,  $C$ , and  $E$  are collinear. (2016 Jiangxi Provincial Preliminary Competition)



$$\frac{B-C}{C-E} = \frac{\frac{C-B}{C-D} \frac{C-D}{C-A}}{\frac{A-C}{C-D}},$$